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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE MAR - 1 2002

TECH CENTER 1600/2900

Applicant: H. Robert Horvitz et al.

Art Unit: 1654

Serial No.: 09/888,243

Examiner:

Filed: June 22, 2001

Customer No.: 21559

Title: Relatedness of Human Interleukin-1beta Convertase Gene to a C.
Elegans Cell Death Gene, Inhibitory Portions of these Genes and Uses
Therefor

Assistant Commissioner For Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449.

Submission of this statement is not a representation that a search has been made,
nor is information included in this statement an admission that the information is material
to patentability.

Under 35 U.S.C. § 120, this application relies on the earlier filing date of
application serial number 08/394,189, filed on February 24, 1995. The present
references were submitted to and/or cited by the Office in the prior application and,
therefore, are not provided in this application.

This statement is being filed before the receipt of a first Office Action on the merits.

If there are any other charges, or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: February 7, 2002

Kristina Becker-Brady
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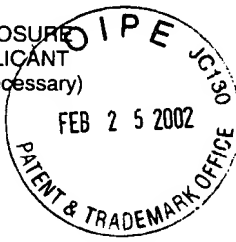
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Sheet 1 of 3

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR §1.98(b))	Attorney Docket No. 01997/211003 Serial No. US 09/888,243 Applicant H. Robert Horvitz et al Filing Date June 22, 2001 Group 1654 IDS Filed February 7, 2002 Customer Number 21559
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U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
	5,416,013	5/15/95	Black et al.	435	226	
	5,278,061	1/11/94	Bull et al.	435	212	
	5,492,824	2/20/96	Talanian et al.	435	226	

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
	WO 91/19007	12.12.91	PCT			
	WOA 920 7071	30.04.92	PCT			
	WOA 911 5577	17.10.91	PCT			
	EPA 053 3350	24.03.93	Europe			

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)	
	Black et al., "Activation of interleukin-1 β by a co-induced protease", FEBS LETTERS 247(2):386-390 (1989).
	Black et al., "A Pre-aspartate-specific Protease from Human Leukocytes that Cleaves Pro-interleukin-1 β ", J. Biol. Chem. 264(10):5323-5326 (1989).
	Brenneman et al., "Cytokine Regulation of Neuronal Survival", J. Neurochem. 58(2):454-460 (1992).
	Cerretti et al., "Molecular Cloning of the Interleukin-1 β Converting Enzyme", Science 256:97-100 (1992).
	Colotta et al., "Modulation of Granulocyte Survival and Programmed Cell Death by Cytokines and Bacterial Products", Blood 80(8):2012-2020 (1992).
	Estrov et al., "Suppression of Chronic Myelogenous Leukemia Colony Growth by Interleukin-1 (IL-1) Receptor Antagonist and Soluble IL-1 Recept.: A Novel Application for Inhibitors of IL-1 Activity", Blood 78(6):1476-1484 (1991).
	Fuhlbrigge et al., "Molecular Biology and Genetics of Interleukin-1", Year Immunol. 5:21-37 (1989).
	Hogquist et al., "Interleukin 1 is Processed and Released During Apoptosis", Proc. Natl. Acad. Sci. USA 88:8485-8489 (1991).
	Horvitz and Chalfie, "Implications of Nematode Neuronal Cell Death for Human Neurological Disorders" in Neurodegenerative Disorders: Mechanisms and Prospects for Therapy, Price et al., (eds.) John Wiley & Sons, (1991) pp. 5-19.
	Jacobson et al., "Breaking the ICE" Current Biology 4(4):337, 1994.
	Kostura et al., "Identification of a monocyte specific pre-interleukin 1 β convertase activity", Proc. Natl. Acad. Sci. USA 86:5227-5231 (1989).

EXAMINER	DATE CONSIDERED
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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

	Kronheim et al., "Purification of Interleukin-1 β Converting Enzyme, the Protease that Cleaves the Interleukin-1 β Precursor", Archives of Biochemistry and Biophysics 296:698-703 (1992).
	Kumar et al., "Identification of a Set of Genes with Developmentally Down-Regulated Expression in the Mouse Brain", Biochem. Biophys. Res. Comm. 185(3):1155-1161 (1992).
	Ledoux et al., "Isolation of nematode homologs of the C. elegans cell death gene ced-3" Neurobiology of Aging 13:S47 (1992).
	Lotem and Sachs, "Hematopoietic Cytokines Inhibit Apoptosis Induced by Transforming Growth Factor β 1 and Cancer Chemotherapy Compounds in Myeloid Leukemic Cells", Blood 80(7):1750-1757 (1992).
	Mangan and Wahl, "Differential Regulation of Human Monocyte Programmed Cell Death (Apoptosis) by Chemotactic Factors and Pro-Inflammatory Cytokines", J. Immun. 147(10):3408-3412 (1991).
	Mangan et al., "IL-4 Enhances Programmed Cell Death (Apoptosis) in Stimulated Human Monocytes", J. Immun. 148(6):1812-1816 (1992).
	Mangan et al., "Lipopolysaccharide, Tumor Necrosis Factor- α and IL-1 β Prevent Programmed Cell Death (Apoptosis) in Human Peripheral Blood Monocytes", J. Immun. 146:1541-1546 (1991).
	McConkey et al., "Agents that Elevate cAMP Stimulate DNA Fragmentation in Thymocytes", J. Immun. 145(4):1227-1230 (1990).
	McConkey et al., "Interleukin 1 Inhibits T Cell Receptor-Mediated Apoptosis in Immature Thymocytes", J. Biol. Chem. 265(6):3009-3011 (1990).
	(Merck & Co. Inc.) Database WPI Week 9318 AN 93-144400 February 1993 Abstract, Derwent Publications Ltd. London, GB
	Miller et al., "The IL-1 β Converting Enzyme as a Therapeutic Target" Ann. NY Acad. Sci. 696:133, 1993.
	Miura et al., "Induction of Apoptosis in Fibroblasts by IL-1 β -Converting Enzyme, a Mammalian Homolog of the C. elegans Cell Death Gene ced-3" Cell 75:653, 1993.
	Molineaux et al., "Interleukin 1 β (IL-1 β) processing in murine macrophages requires a structurally conserved homologue of human IL-1 β ", Proc. Natl. Acad. Sci. USA 90:1809-1813 (1993).
	Nett et al., "Molecular Cloning of the Murine IL-1 β Converting Enzyme cDNA", J. Immun. 149:3254-3259 (1992).
	Pickup et al., "Hemorrhage in Lesions Caused by Cowpox Virus is Induced by a Viral Protein that is Related to Plasma Protein Inhibitors of Serine Proteases", Proc. Natl. Acad. Sci. USA 83:7698-7702 (1986).
	Rambaldi et al., "Modulation of Cell Proliferation and Cytokine Production in Acute Myeloblastic Leukemia by Interleukin-1 Receptor Antagonist and Lack of its Expression by Leukemic Cells", Blood 78(12):3248-3253 (1991).

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(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

Ray et al., "Viral Inhibition of Inflammation: Cowpox Virus Encodes an Inhibitor of the Interleukin-1 β Converting Enzyme", Cell 69:597-604 (1992).Sleath et al., "Substrate Specificity of the Protease that Processes Human Interleukin-1 β ", J. Biol. Chem. 265(24):14526-14528 (1990).Thornberry et al., "A Novel Heterodimeric Cysteine Protease is required for Interleukin-1 β Processing in Monocytes", Nature 356:768-774 (1992).

Wang et al., "Ich-d1, and ice/ced-3-Related Gene, Encodes Both Positive and Negative Regulators of Programmed Cell Death" Cell 78:739, 1994.

Yuan, J., Dissertation Abstracts International, Vol. 50/10-B, (1989).

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